

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M97602	Client:	Alaskan Copper Works
Date Received:	12/06/05	Project:	Metro KC Grab, PO# M97602
Date Extracted:	12/07/08	Lab ID:	512052-01
Date Analyzed:	12/08/05	Data File:	512052-02.012
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	btb

Internal Standard:	% Recovery:	Lower	Upper
Germanium	110	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/L (ppb)
Chromium	1,200
Nickel	1,500
Copper	1,620
Zinc	30.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Alaskan Copper Works
Date Received:	Not Applicable	Project:	Metro KC Grab, PO# M97602
Date Extracted:	12/07/08	Lab ID:	I5-333 mb
Date Analyzed:	12/08/05	Data File:	I5-333 mb.010
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	btb

Internal Standard:	% Recovery:	Lower	Upper
Germanium	103	Limit:	Limit:
		60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<10
Nickel	<10
Copper	<10
Zinc	<10

FRIEDMAN & BRUYA, INC.**ENVIRONMENTAL CHEMISTS**

Date of Report: 12/13/05

Date Received: 12/06/05

Project: Metro Self Monitor, PO# M97602, F&BI 512052

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR METALS BY EPA METHOD 200.8**

Laboratory Code: 512067-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	ug/L (ppb)	688	651	6	0-20
Nickel	ug/L (ppb)	794	894	12	0-20
Copper	ug/L (ppb)	813	844	4	0-20
Zinc	ug/L (ppb)	<10	10.5	nm	0-20

Laboratory Code: 512067-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	ug/L (ppb)	20	688	b	50-150
Nickel	ug/L (ppb)	20	794	b	50-150
Copper	ug/L (ppb)	20	813	b	50-150
Zinc	ug/L (ppb)	50	<10	107	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Chromium	ug/L (ppb)	20	98	70-130
Nickel	ug/L (ppb)	20	120	70-130
Copper	ug/L (ppb)	20	117	70-130
Zinc	ug/L (ppb)	50	104	70-130

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

December 13, 2005

DUPLICATE COPY

INVOICE # 05ACU1213-2

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M97602, F&BI 512052 - Results of testing
requested by Gerry Thompson for material submitted on December 6, 2005.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 200.8 @ \$80 per sample	\$ 80.00
Rush Charges (24 hour tat) 50% of \$80.00	<u>40.00</u>
Amount Due	\$ 120.00

FEDERAL TAX ID # (b) (6)

512052

SAMPLE CHAIN OF CUSTODY

ME 12/06/05

AI 4

Send Report To Gerald Thompson
 Company Alaskan Copper works
 Address 628 S. Harvard St
 City, State, ZIP Seattle WA 98134
 Phone # 206-382-8329 Fax # 206-382-9309

SAMPLERS (signature)

PROJECT NAME/NO.
METRO KC Grab

PO #

M97602

REMARKS

Please See Results

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☒ RUSH Hot

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes			
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS								
M 97602	01	12/6/05	11:15	H2O	1														

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>Gerald Thompson</u>	<u>Acw</u>	<u>12/6/05</u>	<u>12:54pm</u>
Received by: <u>[Signature]</u>	<u>Nhan Phan</u>	<u>FBI</u>	<u>12/6/05</u>	<u>12:54</u>
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

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December 13, 2005

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

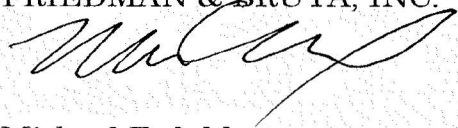
Dear Mr. Thompson:

Included are the results from the testing of material submitted on December 6, 2005 from the Metro KC Grab, PO# M97602, F&BI 512052 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU1213R.DOC